ARITHMETIC CLASSROOM
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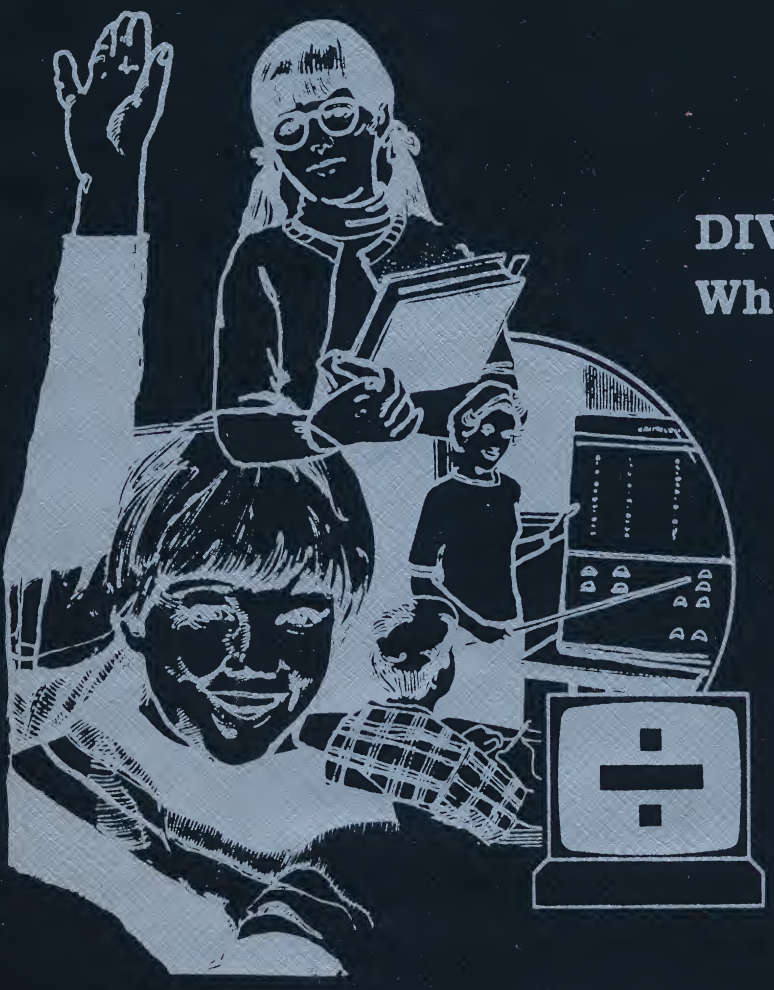
THE ARITHMETIC CLASSROOM



DIVISION
Whole Numbers

by
Courses by
Computers, Inc.

STERLING SOFTWARE™
from
STERLING SWIFT PUBLISHING COMPANY

DIVISION L-012113 THE ARITHMETIC CLASSROOM

WHOLE NUMBERS

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English Language Version

★APPLE-BASED–48K/Applesoft firmware or language system, DOS 3.3

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ARITH CLASS DIV/WHLE NUMBERS 636
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THE ARITHMETIC CLASSROOM
DIVISION

by
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(Including one duplicate set of Practice Exercises)

Student Achievement Record 29
(Includes 5 copies)

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ISBN 0-88408-158-3

PUBLISHER'S PREFACE

I would like to share with you the reasons for our excitement about this software, THE ARITHMETIC CLASSROOM, which is the newest addition to our list of texts, teaching materials, and software/courseware.

First, the APPLE II is an educational tool which can be used with great success both in the home and in the schools. Therefore, a learning system specifically based on this microcomputer is a plus.

Second, THE ARITHMETIC CLASSROOM was developed by experienced, highly competent educators, Dr. Patricia Mullinix, Dr. Fawzy Ibrahim, and David McClintock, and every aspect of this system is testimony to this fact: Educationally sound, tutorially based software (which this is) becomes a strong motivating factor in children's learning.

Third, basic mathematical skills lend themselves particularly well to this kind of approach. THE ARITHMETIC CLASSROOM contains separate programs in Addition, Subtraction, Multiplication, Division, Fractions—Basic Concepts, Fractions—Addition and Subtraction, Fractions—Multiplication and Division, Decimals, and Math Games.

Fourth, the games included—"Slam Dunk Math," "Space War Math," and the "Gong Show"—are themselves motivating and will improve the student's abilities to add, subtract, multiply, divide, and handle fractions.

Fifth, THE ARITHMETIC CLASSROOM provides documentation to enable the student to begin using the software immediately. In the binder containing the system there are two sets of learner tests, five learner profiles (for the users to keep track of lessons mastered), and a complete set of answers. NOTE: feel free to make copies of the tests and student profile sheets, as needed.

In order for your learner to be able to determine the skills already mastered (so that you can be specific as to the lessons needed), there is available from the Publisher an "Inventory" (Placement Check) for both Whole Numbers and Fractions/Decimals.

These learning materials have been developed by teachers and tested extensively in classrooms. There is another version, "Elementary Mathematics Classroom Learning System"—Whole Numbers as well as Fractions/Decimals. These sets, used in schools, have a Management System by which teachers can keep track of the progress of their students.

There you have it. We at Swift Publishing Company think you will see dramatic results. I will appreciate hearing from you about this innovative software: Is it easily usable? Does it achieve the results you want? Please let me know.

Sincerely

Sterling A. Swift
Publisher

THE ARITHMETIC CLASSROOM

Division

OVERVIEW

The Arithmetic Classroom has been developed for home and classroom use and, as suggested by its name, is a comprehensive arithmetic learning system. It is designed for use with an APPLE II Plus microcomputer, and consists of a total of eight self-contained but highly integrated learning packages — one for each of the following topics:

- **Addition**
- **Subtraction**
- **Multiplication**
- **Division**
- **Fractions — Basic Concepts**
- **Fractions — Addition & Subtraction**
- **Fractions — Multiplication & Division**
- **Decimals**

Each learning package contains a *lesson diskette,* a *practice workbook* and *achievement record forms* which are to be used to keep track of learning progress.

This package deals with *division*, and it contains lessons at five levels of competence as illustrated on the next page:

Lessons	*Sample Problems*
Basic Division Facts → 1	$45 \div 9$
One-digit Divisors → 2	$3\overline{)396}$
One-digit Divisors → 3	$5\overline{)610}$
Two-digit Divisors → 4	$13\overline{)156}$
Two-digit Divisors → 5	$42\overline{)1554}$

USING THE DIVISION DISK

There are no limits on the number of learners who can use this lesson disk. When a learner signs on, the following menu page appears:

1) Division — Lesson 1
2) Division — Lesson 2
3) Division — Lesson 3
4) Division — Lesson 4
5) Division — Lesson 5

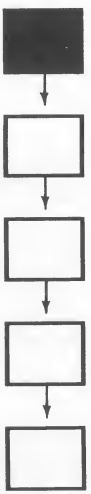
Type the number of lesson you want. ☐

As indicated, the learner is free to choose the lesson he/she wants, but should be advised that the lessons must be studied and mastered *in sequence*; that is, the learner should be competent at level 1 before trying level 2, and so on. The same lesson can be studied numerous times without worry of repetition; indeed, it is to be expected that the learner will need to take the same lesson on several occasions before becoming proficient enough to continue on. This matter is very naturally taken care of by the way in which the lessons are designed.

LESSON DESIGN

Every lesson in the division strand is structured in essentially the same way: examples are given for each lesson learning objective followed by related practice exercises, and every lesson concludes with a test that is intended to determine if mastery has been achieved. The last page the learner sees appears as follows:

> (name), if you have not already done so,
> shade the indicated block(s) on your graph.



Division — Lesson 1

Division — Lesson 2

Division — Lesson 3

Division — Lesson 4

Division — Lesson 5

In the example, the first block is shaded. This means that the mastery test for lesson 1 was taken and passed. Notice that the instruction is to shade the corresponding block on the student achievement record form that is provided. The purpose of this is to enable the learner to keep track of his/her progress in the division strand.

HOW TO GET STARTED

The procedure for getting the division disk ready for use is to:

1) Insert the disk in drive #1.
2) Turn on the TV/Monitor and computer in succession.

HARDWARE REQUIREMENTS

The hardware options for running the ARITHMETIC CLASSROOM are as follows:

Option #1

- APPLE II Plus with 48K
- One disk drive with DOS3.3

Option #2

- APPLE II with 48K
- APPLESOFT in ROM or Language Card
- AUTO-START in ROM
- One disk drive with DOS3.3

THE ARITHMETIC CLASSROOM

Practice Exercises
For

Division

Practice Exercises for Division Lesson #1

SKILL #1

Example:

15 ÷ 5 = 3

because 5 × 3 = 15

1. 24 ÷ 6 = □

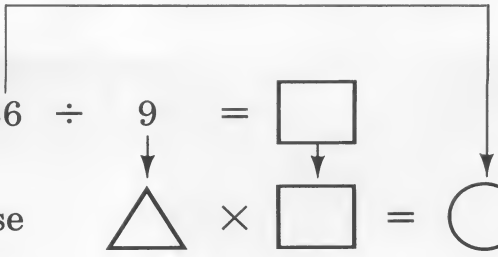
because △ × □ = ○

2. 49 ÷ 7 = □

because △ × □ = ○

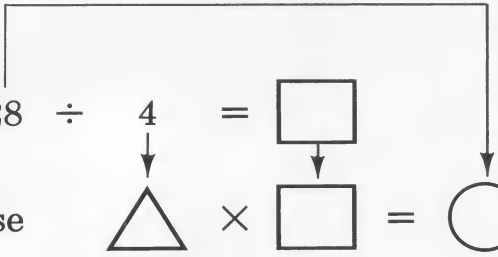
3. $36 \div 9 = \square$

because $\triangle \times \square = \bigcirc$



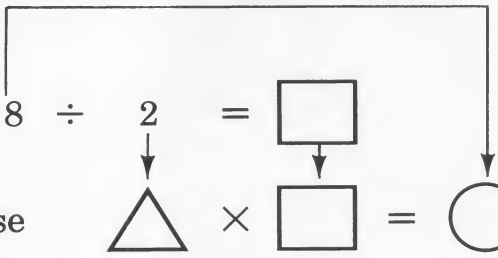
4. $28 \div 4 = \square$

because $\triangle \times \square = \bigcirc$



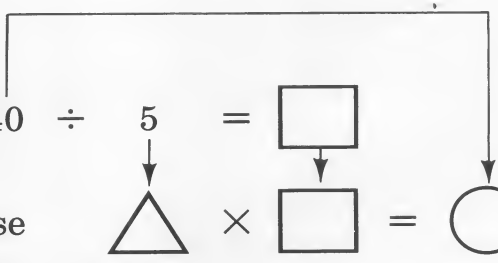
5. $18 \div 2 = \square$

because $\triangle \times \square = \bigcirc$



6. $40 \div 5 = \square$

because $\triangle \times \square = \bigcirc$



7. $56 \div 8 = \square$

because $\triangle \times \square = \bigcirc$

8. $72 \div 9 = \square$

because $\triangle \times \square = \bigcirc$

9. $42 \div 6 = \square$

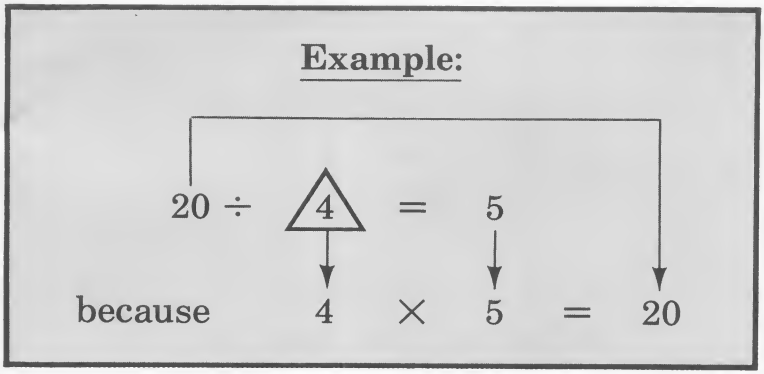
because $\triangle \times \square = \bigcirc$

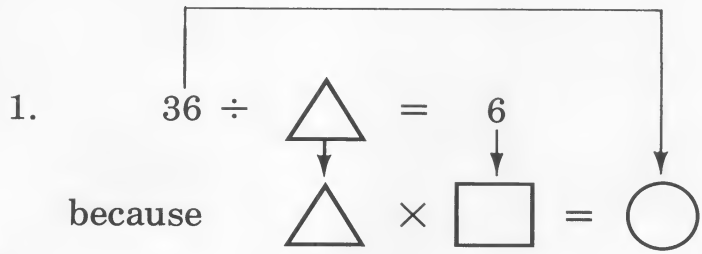
10. $27 \div 3 = \square$

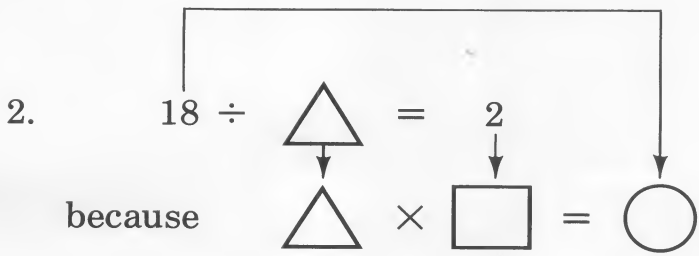
because $\triangle \times \square = \bigcirc$

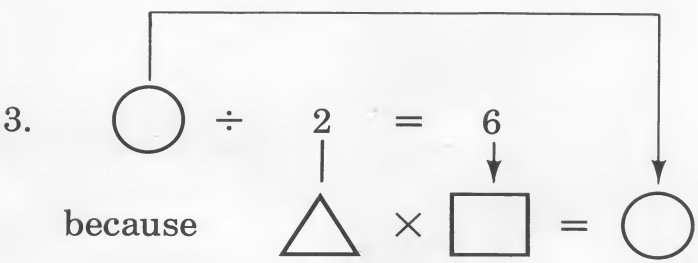
SKILL #2

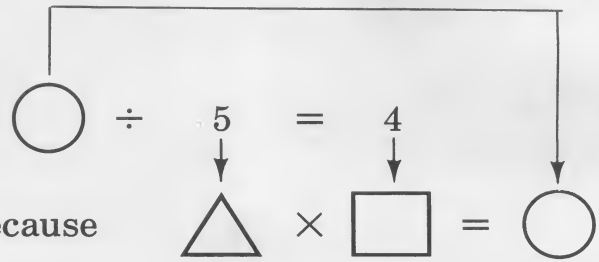
Example:

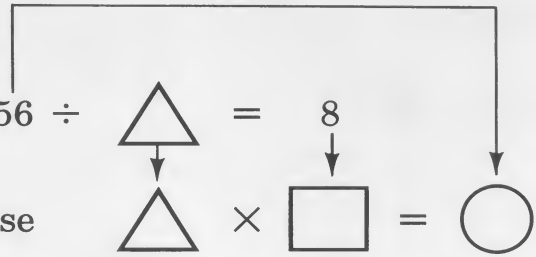


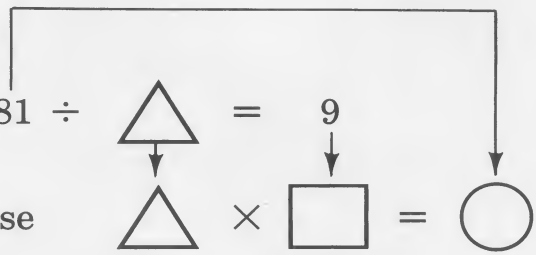
1. 

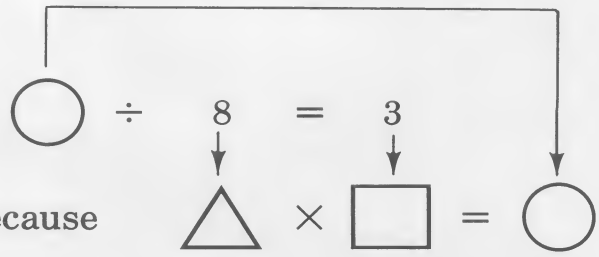
2. 

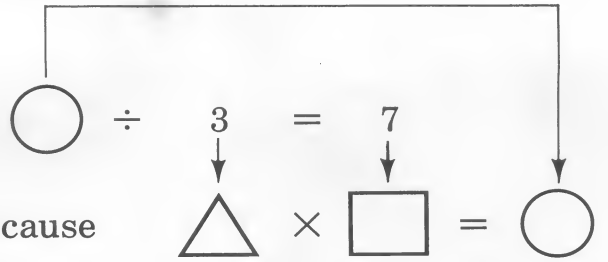
3. 

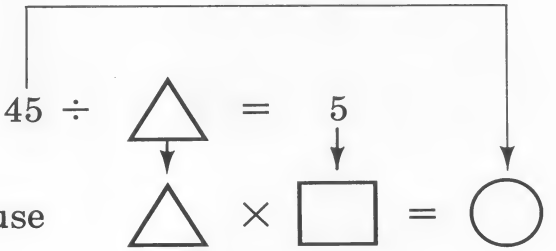
4. 

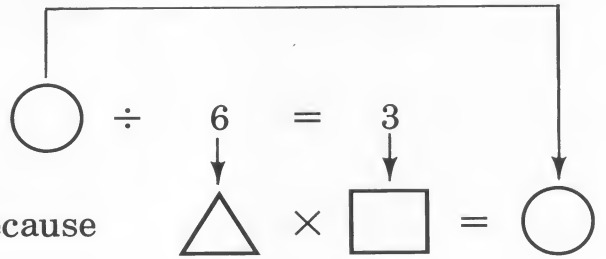
5. 

6. 

7. 

8. 

9. 

10. 

Minute Drill

Try to do all problems in one minute or less.

1. $30 \div 5 =$ ☐
2. $21 \div 3 =$ ☐
3. $18 \div 9 =$ ☐
4. $64 \div 8 =$ ☐
5. $12 \div 4 =$ ☐
6. $36 \div 4 =$ ☐
7. $15 \div 3 =$ ☐
8. $6 \div 6 =$ ☐
9. $28 \div 7 =$ ☐
10. $0 \div 5 =$ ☐
11. $42 \div 7 =$ ☐
12. $72 \div 8 =$ ☐
13. $16 \div 4 =$ ☐
14. $8 \div 1 =$ ☐
15. $40 \div 8 =$ ☐
16. $25 \div 5 =$ ☐
17. $24 \div 3 =$ ☐
18. $56 \div 7 =$ ☐
19. $81 \div 9 =$ ☐
20. $18 \div 6 =$ ☐

Minute Drill

Try to do all problems in one minute or less.

1. $40 \div \square = 8$
2. $\square \div 3 = 8$
3. $12 \div \square = 6$
4. $\square \div 2 = 7$
5. $18 \div \square = 3$
6. $\square \div 5 = 6$
7. $36 \div \square = 4$
8. $\square \div 6 = 7$
9. $25 \div \square = 5$
10. $\square \div 1 = 3$
11. $24 \div \square = 6$
12. $\square \div 9 = 0$
13. $56 \div \square = 7$
14. $\square \div 6 = 1$

Practice Exercises for Division Lesson #2

SKILL #1

Example:

$$\begin{array}{r} 12 \\ 3\overline{)36} \\ \underline{3} \\ 6 \\ \underline{6} \end{array}$$

1. $2\overline{)64}$
2. $9\overline{)99}$
3. $4\overline{)88}$
4. $3\overline{)96}$
5. $2\overline{)66}$
6. $4\overline{)80}$

7. $2\overline{)48}$

8. $3\overline{)90}$

9. $2\overline{)26}$

10. $3\overline{)36}$

11. $2\overline{)22}$

12. $4\overline{)40}$

SKILL #2

Example:

$$
\begin{array}{r}
321 \\
2\overline{)642} \\
\underline{6} \\
4 \\
\underline{4} \\
2 \\
\underline{2} \\
\end{array}
$$

1. $2\overline{)862}$
2. $3\overline{)696}$
3. $4\overline{)484}$
4. $3\overline{)600}$
5. $4\overline{)408}$
6. $8\overline{)880}$

7. $2\overline{)604}$

8. $3\overline{)309}$

9. $7\overline{)707}$

10. $4\overline{)888}$

11. $2\overline{)246}$

12. $3\overline{)900}$

Practice Exercises for Division Lesson #3

SKILL #1

Example:

$$
\begin{array}{r}
16 \\
6\overline{)96} \\
\underline{6} \\
36 \\
\underline{36} \\
\end{array}
$$

1. $2\overline{)76}$
2. $4\overline{)64}$
3. $8\overline{)96}$
4. $7\overline{)91}$
5. $6\overline{)84}$
6. $5\overline{)75}$

7. $2\overline{)98}$

8. $3\overline{)75}$

9. $3\overline{)87}$

10. $5\overline{)90}$

11. $4\overline{)92}$

12. $5\overline{)60}$

SKILL #2

Example:

$$
\begin{array}{r}
83 \\
2\overline{)166} \\
\underline{16} \\
6 \\
\underline{6} \\
\end{array}
$$

1. $8\overline{)408}$
2. $6\overline{)540}$
3. $4\overline{)284}$
4. $3\overline{)276}$
5. $2\overline{)168}$
6. $9\overline{)549}$

7. $5\overline{)450}$

8. $3\overline{)159}$

9. $4\overline{)208}$

10. $8\overline{)648}$

11. $5\overline{)355}$

12. $6\overline{)186}$

SKILL #3

Example:

$$
\begin{array}{r}
194 \\
5\overline{)970} \\
5 \\
\hline
47 \\
45 \\
\hline
20 \\
20 \\
\hline
\end{array}
$$

1. $8\overline{)144}$
2. $4\overline{)112}$
3. $5\overline{)260}$
4. $3\overline{)201}$
5. $7\overline{)112}$
6. $6\overline{)648}$

7. $5\overline{)1415}$

8. $2\overline{)568}$

9. $3\overline{)2316}$

10. $7\overline{)2618}$

11. $6\overline{)3276}$

12. $4\overline{)1976}$

Practice Exercises for Division Lesson #4

SKILL #1

Example:

$$\begin{array}{r} 40 \\ 20\overline{)800} \\ \underline{80} \\ 0 \\ \underline{0} \end{array}$$

1. $30\overline{)900}$
2. $80\overline{)800}$
3. $20\overline{)400}$
4. $10\overline{)500}$
5. $30\overline{)600}$
6. $10\overline{)700}$

7. $40\overline{)800}$

8. $20\overline{)200}$

9. $10\overline{)600}$

10. $30\overline{)600}$

11. $40\overline{)400}$

12. $10\overline{)300}$

SKILL #2

Example:

$$
\begin{array}{r}
42 \\
21\overline{)882} \\
84 \\
\hline
42 \\
42 \\
\hline
\end{array}
$$

1. $31\overline{)992}$
2. $11\overline{)836}$
3. $24\overline{)288}$

4. $13\overline{)286}$
5. $14\overline{)168}$
6. $13\overline{)169}$

7. $12\overline{)372}$ 8. $30\overline{)690}$ 9. $21\overline{)294}$

10. $12\overline{)144}$ 11. $44\overline{)924}$ 12. $67\overline{)737}$

Practice Exercises for Division Lesson #5

SKILL #1

Example:

Step 1:
$$62\overline{)806}\quad \begin{array}{r} 1 \\ 62 \\ \hline 186 \end{array}$$

Step 2:
$$62\overline{)806}\quad \begin{array}{r} 13 \\ 62 \\ \hline 186 \\ 186 \\ \hline \end{array}$$

1. $45\overline{)540}$
2. $16\overline{)208}$
3. $12\overline{)432}$
4. $23\overline{)552}$
5. $27\overline{)324}$
6. $30\overline{)1050}$

7. $13\overline{)949}$ 8. $26\overline{)1040}$ 9. $18\overline{)378}$

10. $14\overline{)868}$ 11. $21\overline{)399}$ 12. $53\overline{)1696}$

SKILL #2

Example:

Step 1:
$$\begin{array}{r} 4 \\ 32\overline{)1472} \\ 128 \\ \hline 192 \end{array}$$

Step 2:
$$\begin{array}{r} 46 \\ 32\overline{)1472} \\ 128 \\ \hline 192 \\ 192 \\ \hline \end{array}$$

1. $57\overline{)1938}$
2. $75\overline{)6675}$
3. $42\overline{)3150}$

4. $96\overline{)8256}$
5. $29\overline{)2233}$
6. $45\overline{)2925}$

7. $88\overline{)7392}$ 8. $32\overline{)2528}$ 9. $76\overline{)6764}$

10. $49\overline{)2107}$ 11. $68\overline{)2176}$ 12. $85\overline{)8245}$

THE ARITHMETIC CLASSROOM

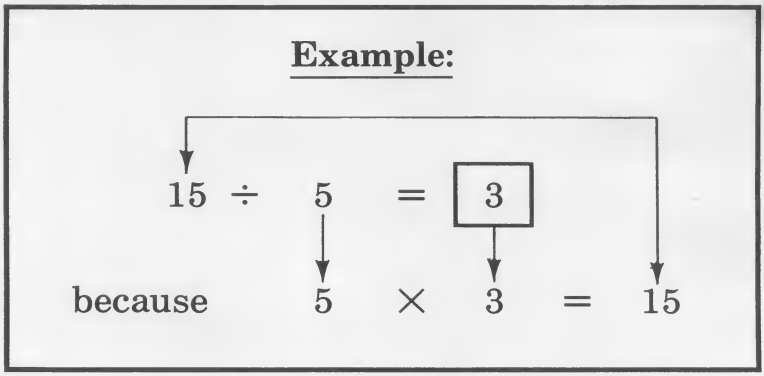
Practice Exercises For

Division

Practice Exercises for Division Lesson #1

SKILL #1

Example:



1. 24 ÷ 6 = □

because △ × □ = ○

2. 49 ÷ 7 = □

because △ × □ = ○

3. 36 ÷ 9 = □

because △ × □ = ○

4. 28 ÷ 4 = □

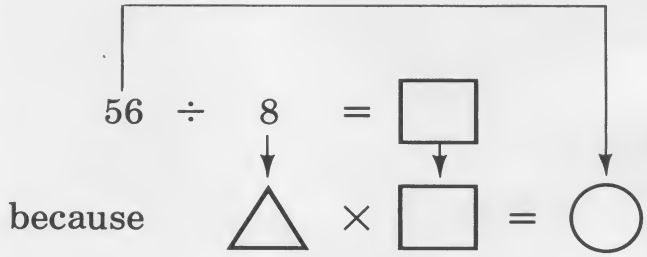
because △ × □ = ○

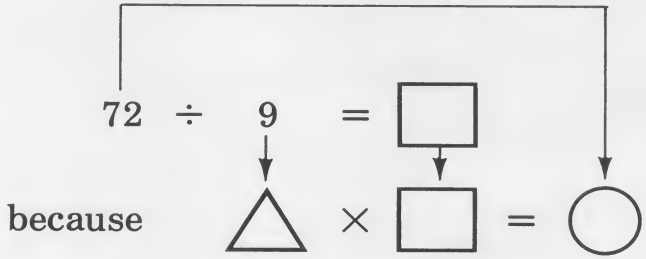
5. 18 ÷ 2 = □

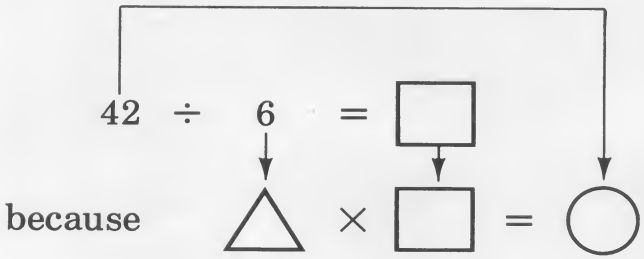
because △ × □ = ○

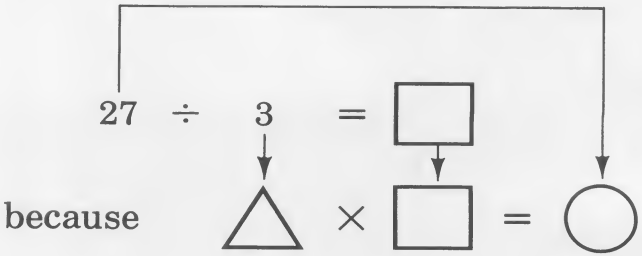
6. 40 ÷ 5 = □

because △ × □ = ○

7. 

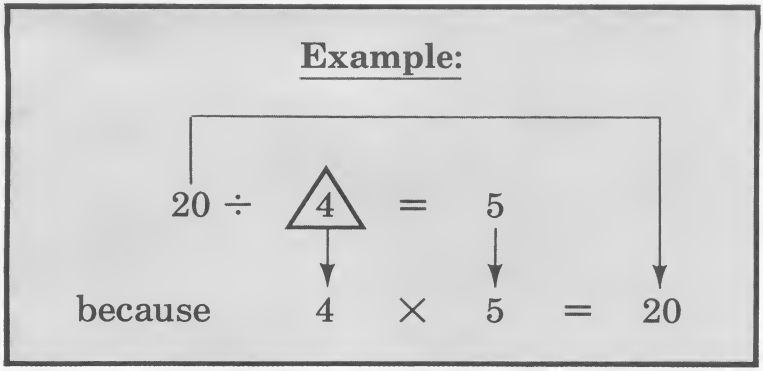
8. 

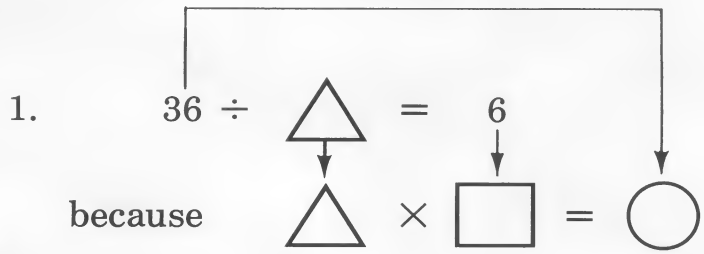
9. 

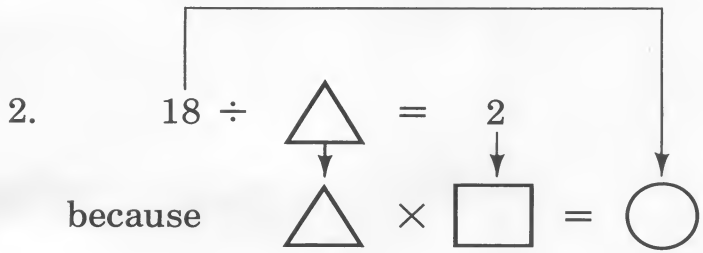
10. 

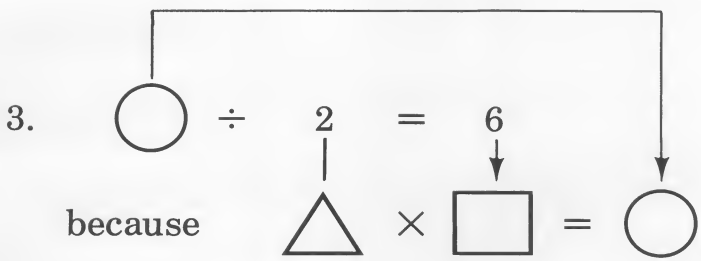
SKILL #2

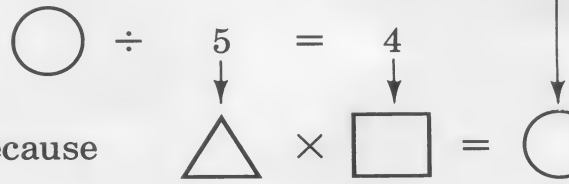
Example:

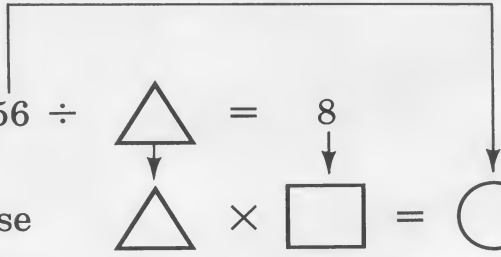


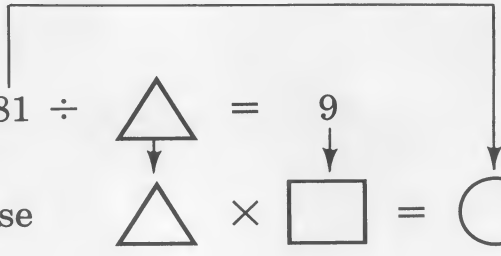
1. 

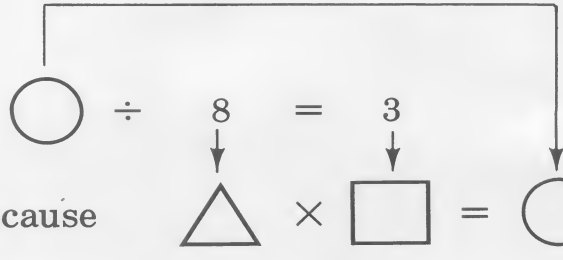
2. 

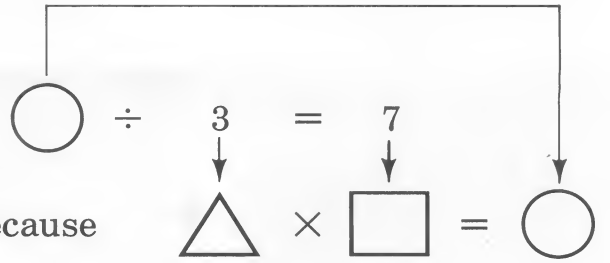
3. 

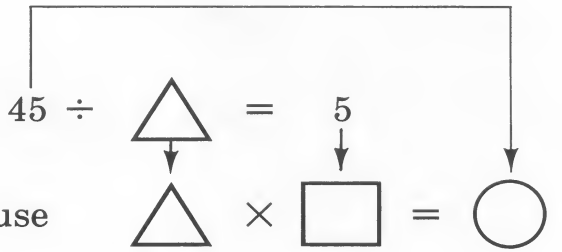
4. 

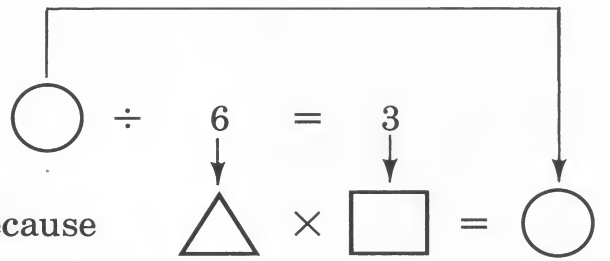
5. 

6. 

7. 

8. 

9. 

10. 

Minute Drill

Try to do all problems in one minute or less.

1.	$30 \div 5 =$ ☐	2.	$21 \div 3 =$ ☐
3.	$18 \div 9 =$ ☐	4.	$64 \div 8 =$ ☐
5.	$12 \div 4 =$ ☐	6.	$36 \div 4 =$ ☐
7.	$15 \div 3 =$ ☐	8.	$6 \div 6 =$ ☐
9.	$28 \div 7 =$ ☐	10.	$0 \div 5 =$ ☐
11.	$42 \div 7 =$ ☐	12.	$72 \div 8 =$ ☐
13.	$16 \div 4 =$ ☐	14.	$8 \div 1 =$ ☐
15.	$40 \div 8 =$ ☐	16.	$25 \div 5 =$ ☐
17.	$24 \div 3 =$ ☐	18.	$56 \div 7 =$ ☐
19.	$81 \div 9 =$ ☐	20.	$18 \div 6 =$ ☐

Minute Drill

Try to do all problems in one minute or less.

1. $40 \div \square = 8$
2. $\square \div 3 = 8$
3. $12 \div \square = 6$
4. $\square \div 2 = 7$
5. $18 \div \square = 3$
6. $\square \div 5 = 6$
7. $36 \div \square = 4$
8. $\square \div 6 = 7$
9. $25 \div \square = 5$
10. $\square \div 1 = 3$
11. $24 \div \square = 6$
12. $\square \div 9 = 0$
13. $56 \div \square = 7$
14. $\square \div 6 = 1$

Practice Exercises for Division Lesson #2

SKILL #1

Example:

$$\begin{array}{r} 12 \\ 3\overline{)36} \\ \underline{3} \\ 6 \\ \underline{6} \end{array}$$

1. $2\overline{)64}$
2. $9\overline{)99}$
3. $4\overline{)88}$
4. $3\overline{)96}$
5. $2\overline{)66}$
6. $4\overline{)80}$

7. $2\overline{)48}$

8. $3\overline{)90}$

9. $2\overline{)26}$

10. $3\overline{)36}$

11. $2\overline{)22}$

12. $4\overline{)40}$

SKILL #2

Example:

$$
\begin{array}{r}
321 \\
2\overline{)642} \\
\underline{6} \\
4 \\
\underline{4} \\
2 \\
\underline{2} \\
\end{array}
$$

1. $2\overline{)862}$
2. $3\overline{)696}$
3. $4\overline{)484}$

4. $3\overline{)600}$
5. $4\overline{)408}$
6. $8\overline{)880}$

7. $2\overline{)604}$

8. $3\overline{)309}$

9. $7\overline{)707}$

10. $4\overline{)888}$

11. $2\overline{)246}$

12. $3\overline{)900}$

Practice Exercises for Division Lesson #3

SKILL #1

Example:

$$
\begin{array}{r}
16 \\
6\overline{)96} \\
\underline{6} \\
36 \\
\underline{36} \\
\end{array}
$$

1. $2\overline{)76}$
2. $4\overline{)64}$
3. $8\overline{)96}$
4. $7\overline{)91}$
5. $6\overline{)84}$
6. $5\overline{)75}$

7. $2\overline{)98}$

8. $3\overline{)75}$

9. $3\overline{)87}$

10. $5\overline{)90}$

11. $4\overline{)92}$

12. $5\overline{)60}$

SKILL #2

Example:

$$
\begin{array}{r}
83 \\
2\overline{)166} \\
\underline{16} \\
6 \\
\underline{6} \\
\end{array}
$$

1. $8\overline{)408}$
2. $6\overline{)540}$
3. $4\overline{)284}$
4. $3\overline{)276}$
5. $2\overline{)168}$
6. $9\overline{)549}$

7. $5\overline{)450}$

8. $3\overline{)159}$

9. $4\overline{)208}$

10. $8\overline{)648}$

11. $5\overline{)355}$

12. $6\overline{)186}$

SKILL #3

Example:

$$
\begin{array}{r}
194 \\
5\overline{)970} \\
\underline{5} \\
47 \\
\underline{45} \\
20 \\
\underline{20} \\
\end{array}
$$

1. $8\overline{)144}$
2. $4\overline{)112}$
3. $5\overline{)260}$
4. $3\overline{)201}$
5. $7\overline{)112}$
6. $6\overline{)648}$

7. $5\overline{)1415}$

8. $2\overline{)568}$

9. $3\overline{)2316}$

10. $7\overline{)2618}$

11. $6\overline{)3276}$

12. $4\overline{)1976}$

Practice Exercises for Division Lesson #4

SKILL #1

Example:

$$
\begin{array}{r}
40 \\
20\overline{)800} \\
80 \\
\hline
0 \\
0 \\
\hline
\end{array}
$$

1. $30\overline{)900}$
2. $80\overline{)800}$
3. $20\overline{)400}$

4. $10\overline{)500}$
5. $30\overline{)600}$
6. $10\overline{)700}$

7. $40\overline{)800}$ 8. $20\overline{)200}$ 9. $10\overline{)600}$

10. $30\overline{)600}$ 11. $40\overline{)400}$ 12. $10\overline{)300}$

SKILL #2

Example:

$$
\begin{array}{r}
42 \\
21\overline{)882} \\
\underline{84} \\
42 \\
\underline{42} \\
\end{array}
$$

1. $31\overline{)992}$
2. $11\overline{)836}$
3. $24\overline{)288}$

4. $13\overline{)286}$
5. $14\overline{)168}$
6. $13\overline{)169}$

7. $12\overline{)372}$ 8. $30\overline{)690}$ 9. $21\overline{)294}$

10. $12\overline{)144}$ 11. $44\overline{)924}$ 12. $67\overline{)737}$

Practice Exercises for Division Lesson #5

SKILL #1

Example:

Step 1:
$$62\overline{)806}\quad \begin{array}{r} 1 \\ 62 \\ \hline 186 \end{array}$$

Step 2:
$$62\overline{)806}\quad \begin{array}{r} 13 \\ 62 \\ \hline 186 \\ 186 \\ \hline \end{array}$$

1. $45\overline{)540}$
2. $16\overline{)208}$
3. $12\overline{)432}$
4. $23\overline{)552}$
5. $27\overline{)324}$
6. $30\overline{)1050}$

7. $13\overline{)949}$ 8. $26\overline{)1040}$ 9. $18\overline{)378}$

10. $14\overline{)868}$ 11. $21\overline{)399}$ 12. $53\overline{)1696}$

SKILL #2

Example:

Step 1:
$$\begin{array}{r} 4 \\ 32\overline{)1472} \\ 128 \\ \hline 192 \end{array}$$

Step 2:
$$\begin{array}{r} 46 \\ 32\overline{)1472} \\ 128 \\ \hline 192 \\ 192 \end{array}$$

1. $57\overline{)1938}$ 2. $75\overline{)6675}$ 3. $42\overline{)3150}$

4. $96\overline{)8256}$ 5. $29\overline{)2233}$ 6. $45\overline{)2925}$

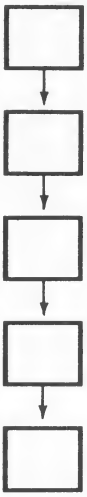
7. $88\overline{)7392}$ 8. $32\overline{)2528}$ 9. $76\overline{)6764}$

10. $49\overline{)2107}$ 11. $68\overline{)2176}$ 12. $85\overline{)8245}$

THE ARITHMETIC CLASSROOM

Division

Student Achievement Record



Division — Lesson 1

Division — Lesson 2

Division — Lesson 3

Division — Lesson 4

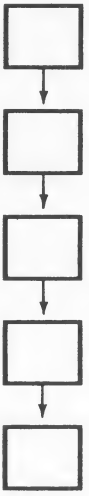
Division — Lesson 5

Name _____

THE ARITHMETIC CLASSROOM

Division

Student Achievement Record



Division — Lesson 1

Division — Lesson 2

Division — Lesson 3

Division — Lesson 4

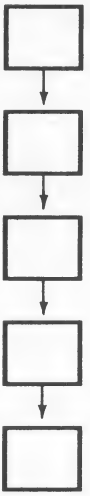
Division — Lesson 5

Name _____

THE ARITHMETIC CLASSROOM

Division

Student Achievement Record



Division — Lesson 1

Division — Lesson 2

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Division — Lesson 4

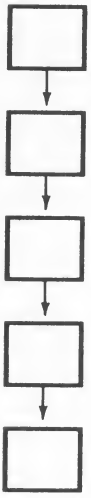
Division — Lesson 5

Name _____

THE ARITHMETIC CLASSROOM

Division

Student Achievement Record



Division — Lesson 1

Division — Lesson 2

Division — Lesson 3

Division — Lesson 4

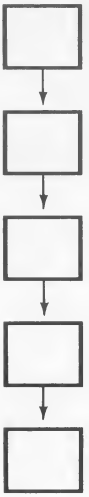
Division — Lesson 5

Name _____

THE ARITHMETIC CLASSROOM

Division

Student Achievement Record



Division — Lesson 1

Division — Lesson 2

Division — Lesson 3

Division — Lesson 4

Division — Lesson 5

Name _____

Answer Key

Practice Exercises for Division

LESSON #1

SKILL #1

1. 4
2. 7
3. 4
4. 7
5. 9
6. 8
7. 7
8. 8
9. 7
10. 9

SKILL #2

1. 6
2. 9
3. 12
4. 20
5. 7
6. 9
7. 24
8. 21
9. 9
10. 18

MINUTE DRILL

1. 6
2. 7
3. 2
4. 8
5. 3
6. 9
7. 5
8. 1
9. 4
10. 0
11. 6
12. 9
13. 4
14. 8
15. 5
16. 5
17. 8
18. 8
19. 9
20. 3

MINUTE DRILL

1.	5	2.	24
3.	2	4.	14
5.	6	6.	30
7.	9	8.	42
9.	5	10.	3
11.	4	12.	0
13.	8	14.	6

LESSON #2

SKILL #1

1.	32	2.	11	3.	22
4.	32	5.	33	6.	20
7.	24	8.	30	9.	13
10.	12	11.	11	12.	10

SKILL #2

1.	431	2.	232	3.	121
4.	200	5.	102	6.	110
7.	302	8.	103	9.	101
10.	222	11.	123	12.	300

LESSON #3

SKILL #1

1. 38	2. 16	3. 12
4. 13	5. 14	6. 15
7. 49	8. 25	9. 29
10. 18	11. 23	12. 12

SKILL #2

1. 51	2. 90	3. 71
4. 92	5. 84	6. 61
7. 90	8. 53	9. 52
10. 81	11. 71	12. 31

SKILL #3

1. 18	2. 28	3. 52
4. 67	5. 16	6. 108
7. 283	8. 284	9. 772
10. 374	11. 546	12. 494

LESSON #4

SKILL #1

1. 30	2. 10	3. 20
4. 50	5. 20	6. 70
7. 20	8. 10	9. 60
10. 20	11. 10	12. 30

SKILL #2

1. 32	2. 76	3. 12
4. 22	5. 12	6. 13
7. 31	8. 23	9. 14
10. 12	11. 21	12. 11

LESSON #5

SKILL #1

1. 12	2. 13	3. 36
4. 24	5. 12	6. 35
7. 73	8. 40	9. 21
10. 62	11. 19	12. 32

SKILL #2

1. 34	2. 89	3. 75
4. 86	5. 77	6. 65
7. 84	8. 79	9. 89
10. 43	11. 32	12. 97

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